Serial No. 10/037,982   Patent
                                    Attorney Docket No.: PD-970358A

AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims, in which no claims are currently withdrawn, canceled or currently amended.

1 – 36. (Canceled)

37. (Previously Presented) A method for processing data for transmission comprising:

partitioning a set of orthogonal codes into a first subset and a second subset;

partitioning a first group of data bits into first packets, wherein the first group of data bits are encoded by assigning the first packets to a corresponding member of the first subset; and

partitioning a second group of data bits into second packets, wherein the second group of data bits are encoded by assigning the second packets to a corresponding member of the second subset .

38. (Previously Presented) A method as defined in claim 37, wherein the encoded data bits are transmitted over a communication system that includes a Code Division Multiple Access (CDMA) communication system.

39. (Previously Presented) A method as defined in claim 37, wherein the first group of data bits represents an audio signal, a video signal, or a data signal.

40. (Previously Presented) A method as defined in claim 37, wherein the second group of data bits represents an audio signal, a video signal, or a data signal.

41. (Previously Presented) A method as defined in claim 37, wherein the first group of data bits is associated with a lower power level than the second group of data bits and the number of members in the first subset is higher than the number of members in the second subset.

42. (Previously Presented) A method as defined in claim 37, wherein the first group of data bits is associated with a higher data rate than the second group of data bits and the number of members in the first subset is higher than the number of members in the second subset.

43. (Previously Presented) A method as defined in claim 37, wherein the first group of data bits is associated with a lower error rate than the second group of data bits and the number of members in the first subset is higher than the number of members in the second subset.

44. (Previously Presented) An apparatus for processing a signal, the apparatus comprising:

a signal partitioner for partitioning data bits corresponding to the signal into packets having a number of members; and

a code partitioner for assigning a subset of orthogonal codes to the packets, the subset including at least three codes.

45. (Previously Presented) An apparatus as defined in claim 44, further comprising:

an encoder configured to map the packets to the subset of the orthogonal codes to output an encoded signal; and

a transmitter for transmitting the encoded signal.

46. (Previously Presented) An apparatus as defined in claim 44, wherein the signal represents either an audio signal, a video signal, or a data signal.

47. (Previously Presented) An apparatus as defined in claim 44, wherein the encoded signal is transmitted over a communication system that includes a Code Division Multiple Access (CDMA) communication system.

48. (Previously Presented) An apparatus as defined in claim 44, wherein the signal partitioner comprises software performed by a microprocessor.

49. (Previously Presented) An apparatus as defined in claim 44, wherein the signal partitioner comprises an integrated circuit.

50. (Previously Presented) An apparatus as defined in claim 44, wherein the code partitioner comprises software performed by a microprocessor.

51. (Previously Presented) An apparatus as defined in claim 44, wherein the code partitioner comprises an integrated circuit.

52. (Previously Presented) An apparatus as defined in claim 45, wherein the encoder comprises software performed by a microprocessor.

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53. (Previously Presented) An apparatus as defined in claim 45, wherein the encoder

comprises an integrated circuit.

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